



protecting communication between chip set to

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[Device and method for preventing fraudulent copies of data containing encrypted copy-management information and recording medium](#)

T Kato - US Patent 6,343,281, 2002 - Google Patents

... 3, 1997; Junko Yoshida.* **Protecting** digital media content, Memon, Nasir; Wong, Ping Wah ...
29,2002 Sheet 1 of 10 US 6,343,281 BI MULTIMEDIA DATA STB -101 D ... COPYING PROCESSING
SECTION READ PROCESSING SECTION h321 322 _JL_ IEEE 1394 CHIP 323 _L_ ...

[Cited by 21](#) - [Related articles](#) - [All 2 versions](#)

[Smart card mating protocol](#)

Jl Okimoto, EJ Sprunk, LW Tang... - US Patent App. ..., 2002 - freepatentsonline.com

... 20020039420, Method and apparatus for batched network security **protection** server performance,
April ... system 60 is responsible for entitlements (including transferring entitlements **between** initially
mated ... function to yield an authenticator delivered as part of the **communication**. ...

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[Method and apparatus for distributing keys for **decrypting** and re-**encrypting** publicly distributed media](#)

GL Graunke - US Patent App. 20,030/005,285, 2001 - freepatentsonline.com

... Content **Protection**) developed by Intel protects digital content as it is transmitted **between** a set ...
TCB or it can be done directly to the sinks using a **communication** protocol understood by ... the
amount of information in the trusted module is small, the cost of **protecting** the information ...

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[Method and apparatus for simultaneous **encryption** and decryption of publicly distributed media](#)

GL Graunke - US Patent App. 20,030/002,675, 2001 - freepatentsonline.com

... Content **Protection**) developed by Intel protects digital content as it is transmitted **between** a set ...
TCB or it can be done directly to the sinks using a **communication** protocol understood by ... the
amount of information in the trusted module is small, the cost of **protecting** the information ...

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[Method and apparatus for composable block re-**encryption** of publicly distributed content](#)

GL Graunke - US Patent App. 20,040/032,950, 2002 - freepatentsonline.com

... not need to be trusted as its function is only to facilitate **communication between** other devices ...
module or it can be done directly to the sinks using a **communication** protocol understood ... the
amount of information in the trusted module is small, the cost of **protecting** the information ...

[Cached](#)

[Method and apparatus for providing conditional access in connection-oriented, interactive networks with a multiplicity of service providers](#)

AJ Wasilewski, DF Woodhead... - US Patent 5,870,474, 1999 - Google Patents

... of programs, including at least one of video, audio, and data, **between** a service ... Packets
representing a particular program requested by a customer having a **set top** unit are ... In particular,
program bearing packets are encrypted according to a first **encryption** algorithm using a ...

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[Cryptographic key distribution system and method for digital video systems](#)

E Olson, D Rogoff, S Petilli... - US Patent App. 20,020/ ..., 2001 - freepatentsonline.com

... the RAM 307 via the selector switch 305 which selects **between** the encryptor ... embodiments, other
cryptographic systems may be used to **protect** the keys ... Previous Patent: **Encryption** method,
decryption method, cryptographic **communication** method, cryptographic communicatio ...

[Cached](#)

[Tokenless identification system for authorization of electronic transactions and electronic transmissions](#)

N Hoffman, DF Pare Jr... - US Patent 5,613,012, 1997 - Google Patents

... 11 F Mandatory Data 7 I Optional Data **Encryption**/Sealing Process at Biometric Input Device
Fig. ... **Set** Electronic Signature in Record (0 ~fmm • ^u 5 ... and its low cost compared to conventional
mail, has made it a method of choice for **communication between** individuals and ...

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[Method and apparatus for providing conditional access in connection-oriented interactive networks with a multiplicity of service providers](#)

AJ Wasilewski, DF Woodhead... - US Patent 6,424,714, 2002 - Google Patents

... of programs, including at least one of video, audio, and data, **between** a service ... Packets
representing a particular program requested by a customer having a **set top** unit are ... In particular,
program bearing packets are encrypted according to a first **encryption** algorithm using a ...

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[Method and apparatus for providing hierarchical key system in restricted-access television system](#)

WJ Richards - US Patent 6,069,957, 2000 - Google Patents

... Such a hierarchy is sometimes called "key-upon-key" **encryption**. The system transmits a second
key that produces a **first key** from a cipher text (which **first key** decrypts a first program material)

and wherein the second key also decrypts a second program material. ...

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Context-agile encryption for high speed communication networks

[\[PDF\] from sigcomm.org](#)

LG Pierson, EL Witzke, MO Bean... - Communication Review, 1999 - portal.acm.org

... In order to support the required data rates, a point to point architecture **between** the cell router and ... 46 Computer **Communication** Review ... The following discussion assumes Counter Mode, as Electronic Codebook Mode does not **protect** against dictionary lookup or replay attacks ...

[Cited by 16](#) - [Related articles](#) - [BL Direct](#) - [All 9 versions](#)

Tokenless biometric transaction authorization system

DF Pare Jr, JA Lee... - US Patent 5,638,812, 1996 - Google Patents

... The method and apparatus can be networked to act as a full or partial intermediary **between** other independent computer ... 11 QUO / Mandatory 7 Data 7 **Encryption**/Sealing Process at Biometric Input Device Fig. ... **Set** Electronic Signature in Record "=" 5? 0 8 g |"| £§ o to .c ...

[Cited by 187](#) - [Related articles](#) - [All 2 versions](#)

System and method for secure electronic digital rights management, secure transaction management and content distribution

D Runje, M Kovac, BD Litman... - US Patent App. ..., 2000 - freepatentsonline.com

... This transformation/modification can have several purposes one of which could be to **protect** the original content so that it ... together with the **first key** pair is used to establish and ensure secure **communication** connection/secure **communication** channel **between** CA and ...

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Method and apparatus for providing bus-encrypted copy protection key to an unsecured bus

DA Strasser, E Pang... - US Patent App. 20,020/ ..., 2001 - freepatentsonline.com

... and the DFAST algorithm as described, for example, in the Open Cable POD Copy **Protection** System Interim ... key 124 , so that the bus **encryption** key is not communicated over any **communication** link such as the unsecured bus 112 or the channel 104 **between** the POD ...

[Cached](#)

Tokenless identification of individuals

DF Pare Jr, N Hoffman... - US Patent 5,805,719, 1998 - Google Patents

... The system can be networked to act as a full or partial intermediary **between** other independent computer systems, or may be the sole computer systems carrying out all ... 8, Sheet 6 of 14 § y **Encryption** of Data MDM V. O oo Qj OQ^ ^ - Q__ ^ ^5 c ^ QJ 0 1 l . \$ ^^SH^ .-|.s ^11! ...

[Cited by 238](#) - [Related articles](#) - [All 2 versions](#)

[HTML] Practical Cryptosystems and their Strength

[\[HTML\] from tkk.fi](#)

J Frösén - Tik-110 501 Seminar on Network Security, 1995 - tml.tkk.fi

... Strong **encryption** can be used to **protect** your sensitive data against organized crime, government and multinational ... In hardware, DES is **between** 1,000 and 10,000 times as fast, depending on the implementations. ... This may be a text message, file or a stream of **communication**. ...

[Cited by 1](#) - [Related articles](#) - [Cached](#)

System and method for secure electronic digital rights management, secure transaction management and content distribution

D Runje, M Kovac, BD Litman... - US Patent App. 09/ ..., 2000 - Google Patents

... Sheet 43 of 48 US 2001/0032312 A1 Key Establishment Protocol **between** UD and ... contains certain IDs or crypto keys used for identification and/or **encryption**, decryption [0015 ... keys from the protected storage inside the embedded processor [0016] Secure **chip** level—software ...

Initializing, maintaining, updating and recovering secure operation within an integrated system employing a data access control function

EM Foster, WE Hall... - US Patent App. 20,030/ ..., 2002 - freepatentsonline.com

... To **protect** a secret key, therefore, the number of samples employing the key should be limited. ... with the on-**chip** persistent storage so that the count is maintained **between** sessions, or ... 12 A, data is received, in this case through **communication** port 1200 , from an outside source ...

[Cached](#)

Time delayed key escrow

S Goldwasser... - US Patent 5,768,388, 1998 - Google Patents

... of the secret-key is essentially exhaustive search, otherwise it will not provide **protection** against massive ... of the secret-key can be done over the public insecure **communication** channels (without use of **encryption** to hide pieces) via an interactive process **between** 45 the ...

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Server with multiple encryption libraries

J Newton - US Patent App. 20,030/035,547, 2001 - freepatentsonline.com

... Layer (SSL) technology, is the industry-standard method for **protecting** web communications ... as SRAM (static random access memory) for implementing on-**chip** configuration memory ... on the World Wide Web for authenticated and encrypted **communication** **between** clients and ...

[Cached](#)

METHOD AND APPARATUS FOR PROVIDING CONDITIONAL ACCESS IN CONNECTION-ORIENTED INTERACTIVE NETWORKS WITH A MULTIPLICITY OF ...

AH Wasilewski, DF Woodhead... - US Patent App. 20,020 ..., 1998 - freepatentsonline.com

... The NCMC 100 then provides a **communication** connection **between** a particular service provider 110 ... overcomes an additional obstacle—only a single interactive connection exists **between** the

SP ... word, other data (eg, system-wide pay-per view access, copy **protection**, and the ...

[Cached](#)

Server with multiple **encryption** libraries

J Newton - US Patent App. 09/320,216, 2001 - Google Patents

... Sockets Layer (SSL) technology, is the industry-standard method for **protecting** web communica ...
bus 112, **communication** adapter 134 for connecting the workstation to a **communication** network
(eg ... layer module may be used to manually or automatically select **between** any one ...

Method for simulcrypting scrambled data to a plurality of conditional access devices

BL Candekore - US Patent App. 20,020/188,567, 2002 - freepatentsonline.com

... The combination of movement towards digital **communication** systems and digital recording devices poses a ... operates to transmit control information and data including program data **between** the digital ... scrambled stream is provided to the DES ECB copy **protection chip** 642 for ...

[Cached](#)

Method and apparatus for enhancing software security and distributing software

SL Chang ... - US Patent 5,724,425, 1998 - Google Patents

... Public key cryptography is used to send secure messages across public **communication** links on which ... As will be described, the present invention may also be used to **protect** intellectual property ... all cases, the reader is advised to keep in mind the distinction **between** the method ...

[Cited by 235](#) - [Related articles](#) - [All 2 versions](#)

[BOOK] PGP: pretty good privacy

S Garfinkel - 1995 - books.google.com

... 125 An Information Superhighway that's "Wired for Sound" 126 The NSA's Clipper **Chip** 127 Inside ... is now the official standard for voice, fax, and low-speed data **communication** for the ... with RSA and other good cryptographic systems, the tools for privacy **protection** are now in the ...

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[\[HTML\] from utalca.cl](#)

Secure execution of program instructions provided by network interactions with processor

A Foimsbee - US Patent 6,308,256, 2001 - Google Patents

... 5 is a diagram which shows how interdependencies **between** operations are checked in the ... These encrypted long instruction words may then be distributed without further **protection** to the ... Each CPU **chip** produced, according to the present invention, has an instruction **set** that ...

[Cited by 47](#) - [Related articles](#) - [All 2 versions](#)

[BOOK] Smart card security and applications

M Hendry - 2001 - books.google.com

... Card Security and Applications Calculating the risks: probabilities and odds 13 Technical **communication** obstacles 15 ... The next generation of mobile telephony will bring the **chip** card to North America and ... be put in place for a smart card scheme to be effective in **protecting** data ...

[Cited by 123](#) - [Related articles](#) - [Library Search](#) - [All 7 versions](#)

Cryptographic system with methods for user-controlled message recovery

P Zimmermann - US Patent 6,314,190, 2001 - Google Patents

... of the disclosure of this patent document contains material which is subject to copyright **protection**. ... from one individual to another across a network or other **communication** channel, including ... user; the **first key** pair comprises a public key employed for **encrypting** messages sent ...

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System and method for downloading electronic information to a video lottery terminal

TA Gordon, BM Kelly ... - US Patent App. 20,020/ ..., 2001 - freepatentsonline.com

... This gives the client the ability to distinguish **between** electronic keys used for different software ... third key required to decrypt the code and this offers added **protection** against unauthorized ... [0046] Electronic security key access occurs before any **communication** transfers occur ...

[Cached](#)

System for controlling the distribution and use of digital works having attached usage rights where the usage rights are defined by a usage rights grammar

MJ Stefik - US Patent 5,715,403, 1998 - Google Patents

... the right The behavior of a usage right is embodied in a predetermined **set** of usage ... Strattnr, A., "Cash register on a **chip**" may revolutionize software pricing and distribution; Wave ... Griswold, GN, "A Method for **Protecting** Copyright on Networks," IMA Intellectual Property Project ...

[Cited by 591](#) - [Related articles](#) - [All 2 versions](#)

System for controlling the distribution and use of digital works

MJ Stefik ... - US Patent 5,629,960, 1997 - Google Patents

... Access to digital works for the purposes of transporting **between** repositories (eg copying ... Strattnr, A., "Cash register on a **chip**" may revolutionize software pricing and distribution ... Griswold, GN, "A Method for **Protecting** Copyright on Networks," IMA Intellectual Property Project ...

[Cited by 722](#) - [Related articles](#) - [All 2 versions](#)

Security Paradigms

P Verissimo... - Distributed Systems for System Architects, 2001 - Springer

... As depicted in Figure 17.5, Alice (A) and Bob (B) only do public **communication**. ... They may also authenticate messages exchanged **between** two users ... from **encryption**: when a message is encrypted, it is naturally protected, but after decryption at the recipient, the **protection** is lost ...

System for controlling the distribution and use of composite digital works

MJ Steffk, DG Bobrow... - US Patent 5,638,443, 1997 - Google Patents

... Strattnr, A., "Cash register on a **chip**" may revolutionize Software pricing and distribution ... Griswold, GN, "A Method for **Protecting** Copyright on Networks," IMA Intellectual Property Project ... JSCS—Transport-Code: = [Copy | Transfer | Loan {Remaining-Rights: Next-**Set**-of-Rights ...

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System for controlling the distribution and use of digital works having a fee reporting mechanism

MJ Steffk, RC Merkle... - US Patent 5,634,012, 1997 - Google Patents

... A., "Cash register on a **chip**" may revolutionize software pricing and distribution; Wave ... Griswold, GN, "A Method for **Protecting** Copyright on Networks," IMA Intellectual Property Project ... ID}} 7505—Transport-Code := [Copy | Transfer | Loan{Remaining-Rights: Next-**Set**-of-Rights ...

Cited by 527 - Related articles - All 2 versions

Secure entry system with acoustically coupled telephone interface

WF Larson... - US Patent 5,245,852, 1993 - Google Patents

... brochure, "A New Dimension in Key **Box** Systems, by Supra, the EAC-1000 Key Safe System," 1982. ... 23 14' 80' -18' f 46'40- 4'2 46' 981 34' 40' OPTOELECTRONIC **COMMUNICATION** PORT ■42' BATTERY \ CPU TIMER RAM MEMORY STATUS LE.D. 44'-^ 36' KEYPAD ■30 ...

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System for controlling the distribution and use of digital works using digital tickets

MJ Steffk... - US Patent 6,236,971, 2001 - Google Patents

... **Set-Of-Rights**}} {(Delete: **Set-Of-Rights**}} {(Replace: **Set-Of-Rights**)K(Keep: **Set-Of-Rights** ... 4,932,054 entitled "Method and Apparatus for **Protecting** Computer Software Utilizing Coded Filter Network in ... are sent to a license control system over an appropriate **communication** facility. ...

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Electronic postage scale system and method

RG Schwartz, AA Crowe, JS Emmett... - US Patent ..., 1998 - Google Patents

Page 1. ■■■■■■■■■■ United States Patent m Schwartz et al. US005780778A [ii] Patent Number: [45] Date of Patent: 5,780,778 Jul. 14, 1998 [54] ELECTRONIC POSTAGE SCALE SYSTEM AND METHOD [75] Inventors: [73] Robert G. Schwartz. Branford; Alien A. Crowe. ...

Cited by 10 - Related articles - All 2 versions

Consumable authentication protocol and system

SR Wainsley... - US Patent 6,374,354, 2002 - Google Patents

... 20 This includes Internet commerce, peer to peer **communication**, Smart Cards, Authentication chips, elec- tronic ... The **first key** is therefore used to help **protect** the second key against differential attacks. ... 6,3 '4,354 BI 3 Similarly, there should be a minimum delay **between** calls to ...

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Data synchronization method for use with portable, microprocessor-based device

WG Henderson, WF Larson... - US Patent 5,602,536, 1997 - Google Patents

... 22 / 10' \ 106^4. 70'68;80. FIG. 23 46—X m 9' 40' 14', OPTOELECTRONIC **COMMUNICATION** PORT -42' FIG. 24 OPTOELECTRONIC **COMMUNICATION** PORT 7 50' CPU CALENDAR CLOCK 48' 55' \ COMPARTMENT LOCK RAM MEMORY^"54' ,J Page 14. ...

Cited by 66 - Related articles - All 2 versions

Electronic postage scale system and method

RG Schwartz, AA Crowe, JS Emmett... - US Patent ..., 1997 - Google Patents

Page 1. US005615120A United States Patent Schwartz et al. [ii] Patent Number: [45] Date of Patent: 5,615,120 Mar. 25, 1997 [54] ELECTRONIC POSTAGE SCALE SYSTEM AND METHOD [75] Inventors: Robert G. Schwartz ...

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Altered States: Electronic Commerce and Owning the Means of Value Exchange

RD Fram, MJ Radin... - Stan. Tech. L. ..., 1999 - litigation-essentials.lexisnexis.com

... On the plus side, the Internet has reduced the costs of **communication** and promises to ... gap **between** secure payment card transactions and micropayments (roughly anything **between** \$.25 and ... Although copyright **protection** lasts much longer than a patent (ninety-five years after ...

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[PDF] from stanford.edu

IPsec, the Future of Network Security?

O Jönsson... - 2000 - gupea.ub.gu.se

... The purpose of the IP Security Protocol Working Group is to develop mechanisms to **protect** client protocols of IP. ... This **communication** must be standardized if it is to be successful. ... Therefore there must also be an agreement on how to pass data **between** the layers on a single ...

All 2 versions

[PDF] from gu.se

Electronic postage scale system and method

RG Schwartz, AA Crowe, JS Emmett... - US Patent ..., 1999 - freepatentsonline.com

... of the disclosure of this patent document contains material which is subject to copyright **protection**. ... Wave spring washer 125 is placed **between** blocks 109a and 123 to more reliably ... include a clock generator, three timers, a peripheral interrupt controller, a **chip** select logic ...

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Electronic scale system with programmable function keys

RG Schwartz, AA Crowe, JS Emmett... - US Patent ..., 1998 - Google Patents

Page 1. United States Patent Schwartz et al. US005841076A [ii] Patent Number: [45] Date of Patent: 5,841,076 Nov. 24, 1998 [54] ELECTRONIC SCALE SYSTEM WITH PROGRAMMABLE FUNCTION KEYS [75] Inventors: Robert ...

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Adjustable display for use with an electronic postage scale system

RG Schwartz, AA Crowe, JS Emmett... - US Patent ..., 2000 - Google Patents
Page 1. United States Patent [w] Schwartz et al. US006013878A [ij] Patent Number: [45] Date of Patent: 6,013,878 Jan. 11, 2000 [54] ADJUSTABLE DISPLAY FOR USE WITH AN ELECTRONIC POSTAGE SCALE SYSTEM [75] ...

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System and method for an electronic postage scale with variable function keys and window screens

RG Schwartz, AA Crowe, JS Emmett... - US Patent ..., 2000 - Google Patents
Page 1. United States Patent [w] Schwartz et al. US006153835A [ij] Patent Number: 6,153,835 [45] Date of Patent: Nov. 28, 2000 [54] SYSTEM AND METHOD FOR AN ELECTRONIC POSTAGE SCALE WITH VARIABLE FUNCTION ...

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Electronic postage scale system and method

RG Schwartz, AA Crowe, JS Emmett... - US Patent ..., 2002 - Google Patents
Page 1. (12) United States Patent Schwartz et al. US006462286B1 (io) Patent No.: US 6,462,286 B1 (45) Date of Patent: Oct. 8, 2002 (54) ELECTRONIC POSTAGE SCALE SYSTEM AND METHOD (75) Inventors: Robert G. Schwartz ...

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Validation protocol and system

SR Walmsley... - US Patent App. 10/203,559, 2002 - Google Patents
... The **chip** is manufactured using the standard Flash memory manufacturing process, and is low cost-enough to ... modulo register length) Erase X Erase Flash memory register X SetBits[X, Y] **Set** the bits ... suggest an absolute minimum key length of 90 bits in order to **protect** data for ...

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[BOOK] E-mail virus protection handbook

Syngress Media, Inc - 2000 - books.google.com
... CCNA) has about 15 years of experience as an Information and **Communication** Technologies (ICT) ... 15 Types of Worms 16 Trojans 17 Illicit Servers 17 Differentiating **between** Trojans and ... Security 21 Common Authoring Languages 22 **Protecting** Your E-mail 23 **Protecting** E-mail ...
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[PDF] Secure Internet-based Electronic Commerce: The View from Outside the US

P Gutmann - 1998 - Citeseer
... Although Netscape negotiated a 128-bit key to **protect** each session, it sent 88 of ... buggy software, the attempt ultimately failed, but the stage had been **set** for an ... of MD5 precomputation which could be done, and included automatic **communication between** client workstations ...

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Composite digital works having usage rights and method for creating the same

MJ Stefik... - US Patent App. 20,020/128,558, 2001 - freepatentsonline.com
... In addition to **protection** of the repository itself, the repository design protects access to the ... and nonces described below are all security measures aimed at reliable **communication** in a ... in which digital works are exchanged is the basis for all transaction **between** repositories. ...

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Digital works having usage rights and method for creating the same

MJ Stefik... - US Patent App. 20,020/128,972, 2001 - freepatentsonline.com
... In addition to **protection** of the repository itself, the repository design protects access to the ... and nonces described below are all security measures aimed at reliable **communication** in a ... in which digital works are exchanged is the basis for all transaction **between** repositories. ...

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System for controlling the distribution and use of digital works using digital tickets

MJ Stefik... - US Patent App. 20,010/023,417, 2001 - freepatentsonline.com
... In addition to **protection** of the repository itself, the repository design protects access to the ... and nonces described below are all security measures aimed at reliable **communication** in a ... in which digital works are exchanged is the basis for all transaction **between** repositories. ...

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System for controlling the distribution and use of digital works

MJ Stefik... - US Patent App. 20,030/023,561, 2002 - freepatentsonline.com
... In addition to **protection** of the repository itself, the repository design protects access to the ... and nonces described below are all security measures aimed at reliable **communication** in a ... in which digital works are exchanged is the basis for all transaction **between** repositories. ...

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Method and apparatus for executing code in accordance with usage rights

MJ Stefik... - US Patent App. 20,030/225,598, 2002 - freepatentsonline.com
... In addition to **protection** of the repository itself, the repository design protects access to the ... and nonces described below are all security measures aimed at reliable **communication** in a ... in which digital works are exchanged is the basis for all transaction **between** repositories. ...

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[PDF] An introduction to cryptography

E Schaefer - Santa Clara University, 1998 - Citeseer

[\[PDF\] from scu.edu](#)

... It is not only use by spies but for phone, fax and e-mail **communication**, bank transactions ... we can encode a digraph xy as $26x + y$. The resulting number will be **between** 0 and ... is an unsafe stream cipher used on PC's to **encrypt** files (savvy users aware it gives minimal **protection**). ...

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Validation protocol and system

SR Walmsley ... - US Patent App. 20,030/159,036, 2002 - [freepatentsonline.com](#)

... 20070288744, Method of Secure **Communication Between** Endpoints, December, 2007, Wang. ...

[0156] A one-way hash function is not sufficient **protection** for a ... of an authentication **chip**, a known-plaintext attack is one where the attacker can see the data flow **between** the system ...

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Consumable authentication protocol and system

SR Walmsley ... - US Patent App. 20,030/ ... , 2002 - [freepatentsonline.com](#)

... [0154] A one-way hash function is not sufficient **protection** for a message. ... In the case of an authentication **chip**, a known-plaintext attack is one where the attacker can see the data flow **between** the system and the authentication **chip**. ...

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Unauthorised modification of values stored in flash memory

K Silverbrook ... - US Patent App. 20,030/ ... , 2002 - [freepatentsonline.com](#)

... [0159] A one-way hash function is not sufficient **protection** for a message. ... In the case of an authentication **chip**, a known-plaintext attack is one where the attacker can see the data flow **between** the system and the authentication **chip**. ...

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[BOOK] Crypto: Secrecy and privacy in the new code war

S Levy - 2001 - [books.google.com](#)

... public key prime time selling crypto patents and keys crypto anarchy the clipper **chip** slouching toward ... the ultimate information stronghold resides in software, not hardware: virtual safes **protecting** precious data ... of ones and zeros in a computer message to a different **set** of totally ...

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